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Multiple channel communication method for spread spectrum system - determining first number of traffic channels required to transmit communication signal at data rate and second set of channels, and selecting one of channels after comparison
Patent Assignee: MOTOROLA INC
Inventors: BRUCKERT E; BRUCKERT E J; SEXTON T A

Patent Family (11 patents, 23 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1997026726	A1	19970724	WO 1996US19016	A	19961126	199735	B
EP 815665	A1	19980107	EP 1996943532	A	19961126	199806	E
			WO 1996US19016	A	19961126		
BR 199607788	A	19980707	BR 19967788	A	19961126	199834	E
			WO 1996US19016	A	19961126		
US 5781583	A	19980714	US 1996589177	A	19960119	199835	E
JP 11502690	W	19990302	WO 1996US19016	A	19961126	199919	E
			JP 1997525983	A	19961126		
KR 1998703083	A	19980905	WO 1996US19016	A	19961126	199938	E
			KR 1997706492	A	19970918		
JP 3213328	B2	20011002	WO 1996US19016	A	19961126	200164	E
			JP 1997525983	A	19961126		
CN 1179246	A	19980415	CN 1996192701	A	19961126	200220	E
KR 291535	B	20010601	WO 1996US19016	A	19961126	200225	E
			KR 1997706492	A	19970918		
CA 2214809	C	20020924	CA 2214809	A	19961126	200271	E
			WO 1996US19016	A	19961126		
CN 1080048	C	20020227	CN 1996192701	A	19961126	200514	E

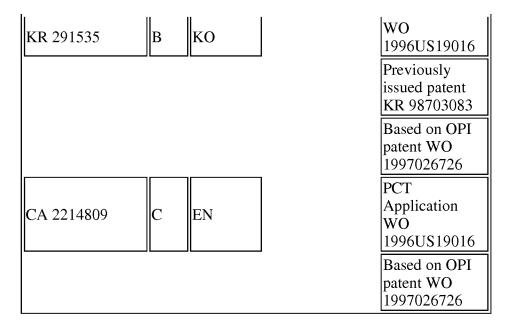**Priority Application Number (Number Kind Date):** US 1996589177 A 19960119

Patent Details

Patent Number	Kind	Language	Pages	Drawings	Filing Notes
WO 1997026726	A1	EN	29	6	
National Designated States,Original		BR CA CN JP KR			

Regional Designated States,Original	AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE			
EP 815665	A1	EN		PCT Application WO 1996US19016
				Based on OPI patent WO 1997026726
Regional Designated States,Original	DE FR			
BR 199607788	A	PT		PCT Application WO 1996US19016
				Based on OPI patent WO 1997026726
JP 11502690	W	JA	28	PCT Application WO 1996US19016
				Based on OPI patent WO 1997026726
KR 1998703083	A	KO		PCT Application WO 1996US19016
				Based on OPI patent WO 1997026726
JP 3213328	B2	JA	13	PCT Application WO 1996US19016
				Previously issued patent JP 11502690
				Based on OPI patent WO 1997026726
				PCT Application

KR 291535	B	KO		WO 1996US19016
				Previously issued patent KR 98703083
				Based on OPI patent WO 1997026726
CA 2214809	C	EN		PCT Application WO 1996US19016
				Based on OPI patent WO 1997026726

Alerting Abstract: WO A1

The method for transmitting a communication signal having a data rate over a number of spread spectrum traffic channels involves determining a first set of traffic channels for transmitting the communication signal at the data rate. A second number of channels are determined to be available for transmitting the communication signal. The two sets of channels are compared.

In response to the comparison, a first traffic channel is selected for transmitting a first part of the signals. A second traffic channel is selected for transmitting a second portion of the communication signal and is selected from the second number of traffic channels available for transmitting the communication signal. The selection of the first channel is non-deterministic of the selection of the second traffic channel.

ADVANTAGE - Identities of channels used for transmission of data portions are not related.

International Classification (Main): H04J-013/04

International Patent Classification

IPC	Level	Value	Position	Status	Version
H04B-0001/707	A	N		R	20060101
H04J-0011/00	A	I		R	20060101
H04J-0013/04	A	I	F	R	20060101
H04L-0001/00	A	I		R	20060101
H04Q-0007/38	A	I	L	R	20060101
H04B-0001/707	C	N		R	20060101
H04J-0011/00	C	I		R	20060101
H04J-0013/02	C	I	F	R	20060101
H04L-0001/00	C	I		R	20060101

H04Q-0007/38   C   I   L   R   20060101

US Classification, Issued: 375-146000
US Classification, Issued: 370-342000, 370-468000, 375-130000, 375-141000
US Classification, Issued: 375206, 375200, 375208, 370342

Original Publication Data by Authority

Brazil
Publication Number: BR 199607788 A (Update 199834 E)
Publication Date: 19980707
Assignee: MOTOROLA INC (MOTI)
Inventor: SEXTON T A BRUCKERT E
Language: PT
Application: BR 19967788 A 19961126 (Local application) WO 1996US19016 A 19961126 (PCT Application)
Priority: US 1996589177 A 19960119
Related Publication: WO 1997026726 A (Based on OPI patent)
Original IPC: H04J-13/04(A) H04B-1/707(B)
Current IPC: H04B-1/707(R,A,N,M,EP,20060101,20051008,A) H04B-1/707
(R,N,M,EP,20060101,20051008,C) H04J-11/00(R,I,M,EP,20060101,20051008,A) H04J-11/00
(R,I,M,EP,20060101,20051008,C) H04J-13/02(R,I,M,JP,20060101,20051220,C,F) H04J-13/04
(R,I,M,JP,20060101,20051220,A,F) H04L-1/00(R,I,M,EP,20060101,20051008,A) H04L-1/00
(R,I,M,EP,20060101,20051008,C) H04Q-7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38
(R,I,M,JP,20060101,20051220,C,L)
Current ECLA class: H04J-11/00 H04L-1/00A1
Current ECLA ICO class: T04B-1:707M T04J-11:00B10 T04J-11:00B4

Canada
Publication Number: CA 2214809 C (Update 200271 E)
Publication Date: 20020924
Assignee: MOTOROLA INC (MOTI)
Inventor: SEXTON T A BRUCKERT E J
Language: EN
Application: CA 2214809 A 19961126 (Local application) WO 1996US19016 A 19961126 (PCT Application)
Priority: US 1996589177 A 19960119
Related Publication: WO 1997026726 A (Based on OPI patent)
Original IPC: H04B-1/69(A)
Current IPC: H04B-1/707(R,A,N,M,EP,20060101,20051008,A) H04B-1/707
(R,N,M,EP,20060101,20051008,C) H04J-11/00(R,I,M,EP,20060101,20051008,A) H04J-11/00
(R,I,M,EP,20060101,20051008,C) H04J-13/02(R,I,M,JP,20060101,20051220,C,F) H04J-13/04
(R,I,M,JP,20060101,20051008,A,F) H04L-1/00(R,I,M,EP,20060101,20051008,A) H04L-1/00
(R,I,M,EP,20060101,20051220,C) H04Q-7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38
(R,I,M,JP,20060101,20051220,C,L)
Current ECLA class: H04J-11/00 H04L-1/00A1
Current ECLA ICO class: T04B-1:707M T04J-11:00B10 T04J-11:00B4

China
Publication Number: CN 1080048 C (Update 200514 E)

Publication Date: 20020227
Assignee: MOTOROLA INC; US (MOTI)
Language: ZH
Application: CN 1996192701 A 19961126 (Local application)
Priority: US 1996589177 A 19960119
Current IPC: H04B-1/707(R,N,M,EP,20060101,20051008,A) H04B-1/707
(R,N,M,EP,20060101,20051008,C) H04J-11/00(R,I,M,EP,20060101,20051008,A) H04J-11/00
(R,I,M,EP,20060101,20051008,C) H04J-13/02(R,I,M,JP,20060101,20051220,C,F) H04J-13/04
(R,I,M,JP,20060101,20051220,A,F) H04L-1/00(R,I,M,EP,20060101,20051008,A) H04L-1/00
(R,I,M,EP,20060101,20051008,C) H04Q-7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38
(R,I,M,JP,20060101,20051220,C,L)
Current ECLA class: H04J-11/00 H04L-1/00A1
Current ECLA ICO class: T04B-1:707M T04J-11:00B10 T04J-11:00B4|CN 1179246 A (Update 200220
E)
Publication Date: 19980415
Assignee: MOTOROLA INC; US (MOTI)
Language: ZH
Application: CN 1996192701 A 19961126 (Local application)
Priority: US 1996589177 A 19960119
Current IPC: H04B-1/707(R,N,M,EP,20060101,20051008,A) H04B-1/707
(R,N,M,EP,20060101,20051008,C) H04J-11/00(R,I,M,EP,20060101,20051008,A) H04J-11/00
(R,I,M,EP,20060101,20051008,C) H04J-13/02(R,I,M,JP,20060101,20051220,C,F) H04J-13/04
(R,I,M,JP,20060101,20051220,A,F) H04L-1/00(R,I,M,EP,20060101,20051008,A) H04L-1/00
(R,I,M,EP,20060101,20051008,C) H04Q-7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38
(R,I,M,JP,20060101,20051220,C,L)
Current ECLA class: H04J-11/00 H04L-1/00A1
Current ECLA ICO class: T04B-1:707M T04J-11:00B10 T04J-11:00B4

European Patent Office
Publication Number: EP 815665 A1 (Update 199806 E)
Publication Date: 19980107
**VERFAHREN UND VORRICHTUNG ZUR NACHRICHTENUBERTRAGUNG UBER
MEHRERE KANALE IN EINEM
SPREIZBANDSPEKTRUMNACHRICHTENUBERTAGUNGSSYSTEM METHOD AND SYSTEM
FOR COMMUNICATION OVER MULTIPLE CHANNELS IN A SPREAD SPECTRUM
COMMUNICATION SYSTEM PROCEDE ET SYSTEME DE TRANSMISSION SUR DES
CANAUX MULTIPLES DANS UN SYSTEME DE TRANSMISSION A SPECTRE ETALE**
Assignee: MOTOROLA, INC., 1303 East Algonquin Road, Schaumburg, IL 60196, US (MOTI)
Inventor: BRUCKERT, Eugene, J., 203 West Noyes, Arlington Heights, IL 60005, US SEXTON,
Thomas, A., 121 Westover Lane, Schaumburg, IL 60193, US
Agent: Morgan, Marc et al, Motorola Eur. Intel. Prop. Op., Midpoint, Alencon Link, Basingstoke,
Hampshire RG21 7PL, GB
Language: EN
Application: EP 1996943532 A 19961126 (Local application) WO 1996US19016 A 19961126 (PCT
Application)
Priority: US 1996589177 A 19960119
Related Publication: WO 1997026726 A (Based on OPI patent)
Designated States: (Regional Original) DE FR
Original IPC: H04J-13/04(A) H04B-1/707(B)
Current IPC: H04B-1/707(R,A,N,M,EP,20060101,20051008,A) H04B-1/707
(R,N,M,EP,20060101,20051008,C) H04J-11/00(R,I,M,EP,20060101,20051008,A) H04J-11/00

(R,I,M,EP,20060101,20051008,C) H04J-13/02(R,I,M,JP,20060101,20051220,C,F) H04J-13/04
(R,I,M,JP,20060101,20051220,A,F) H04L-1/00(R,I,M,EP,20060101,20051008,A) H04L-1/00
(R,I,M,EP,20060101,20051008,C) H04Q-7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38
(R,I,M,JP,20060101,20051220,C,L)
Current ECLA class: H04J-11/00 H04L-1/00A1
Current ECLA ICO class: T04B-1:707M T04J-11:00B10 T04J-11:00B4
Original Abstract: A method for transmitting a communication signal (20) having a data rate over a
plurality of spread spectrum traffic channels includes determining a first number of traffic channels
required to transmit the communication signal at the data rate, and determining a second number of
traffic channels (502) available for transmitting the communication signal (20). In response to a
comparison of the first number of traffic to the second number of traffic channels, a first traffic channel
(54) for transmitting a first portion of the communication signal (50, 51) and a second traffic channel
(56) for transmitting a second portion of the communication signal (52, 53) are selected from the second
number of traffic channels (502). The selection of the first traffic channel (54) is non deterministic of the
selection of the second traffic channel (56).

Japan
Publication Number: JP 11502690 W (Update 199919 E)
Publication Date: 19990302
Assignee: MOTOROLA INC (MOTI)
Inventor: BRUCKERT E J SEXTON T A
Language: JA (28 pages)
Application: WO 1996US19016 A 19961126 (PCT Application) JP 1997525983 A 19961126 (Local
application)
Priority: US 1996589177 A 19960119
Related Publication: WO 1997026726 A (Based on OPI patent)
Original IPC: H04J-13/04(A) H04Q-7/38(B)
Current IPC: H04J-13/04(A) H04Q-7/38(B)
Current ECLA class: H04J-11/00 H04L-1/00A1
Current ECLA ICO class: T04B-1:707M T04J-11:00B10 T04J-11:00B4|JP 3213328 B2 (Update 200164
E)
Publication Date: 20011002
Language: JA (13 pages)
Application: WO 1996US19016 A 19961126 (PCT Application) JP 1997525983 A 19961126 (Local
application)
Priority: US 1996589177 A 19960119
Related Publication: JP 11502690 A (Previously issued patent) WO 1997026726 A (Based on OPI
patent)
Original IPC: H04J-13/04(A) H04Q-7/38(B)
Current IPC: H04B-1/707(R,A,N,M,EP,20060101,20051008,A) H04B-1/707
(R,N,M,EP,20060101,20051008,C) H04J-11/00(R,I,M,EP,20060101,20051008,A) H04J-11/00
(R,I,M,EP,20060101,20051008,C) H04J-13/02(R,I,M,JP,20060101,20051220,C,F) H04J-13/04
(R,I,M,JP,20060101,20051220,A,F) H04L-1/00(R,I,M,EP,20060101,20051008,A) H04L-1/00
(R,I,M,EP,20060101,20051008,C) H04Q-7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38
(R,I,M,JP,20060101,20051220,C,L)
Current ECLA class: H04J-11/00 H04L-1/00A1
Current ECLA ICO class: T04B-1:707M T04J-11:00B10 T04J-11:00B4
Current JP FI-Terms: H04B-7/26 109 M H04B-7/26 109 N H04J-13/00 G
Current JP F-Terms: 5K022 5K067 5K067AA21 5K067BB21 5K067CC10 5K067DD04 5K022EE01
5K067EE02 5K067EE10 5K022EE14 5K022EE21 5K022EE31 5K067EE65 5K067EE66 5K067HH22
5K067JJ12

Republic of Korea
Publication Number: KR 291535 B (Update 200225 E)
Publication Date: 20010601
Assignee: MOTOROLA INC (MOTI)
Language: KO
Application: WO 1996US19016 A 19961126 (PCT Application) KR 1997706492 A 19970918 (Local application)
Priority: US 1996589177 A 19960119
Related Publication: KR 98703083 A (Previously issued patent) WO 1997026726 A (Based on OPI patent)
Current IPC: H04J-13/04(A) H04B-1/707(B)|KR 1998703083 A (Update 199938 E)
Publication Date: 19980905
Assignee: MOTOROLA INC (MOTI)
Language: KO
Application: WO 1996US19016 A 19961126 (PCT Application) KR 1997706492 A 19970918 (Local application)
Priority: US 1996589177 A 19960119
Related Publication: WO 1997026726 A (Based on OPI patent)
Original IPC: H04J-13/04(A) H04B-1/707(B)
Current IPC: H04J-13/04(A) H04B-1/707(B)

United States
Publication Number: US 5781583 A (Update 199835 E)
Publication Date: 19980714
Method and system for communication over multiple channels in a spread spectrum communication system.
Assignee: Motorola, Inc., Schaumburg, IL, US (MOTI)
Inventor: Sexton, Thomas A., Schaumburg, IL, US Bruckert, Eugene J., Arlington Heights, IL, US
Agent: Creps; Heather L.
Language: EN
Application: US 1996589177 A 19960119 (Local application)
Original IPC: H04B-1/707(A) H04J-13/04(B)
Current IPC: H04B-1/707(R,A,N,M,EP,20060101,20051008,A) H04B-1/707
(R,N,M,EP,20060101,20051008,C) H04J-11/00(R,I,M,EP,20060101,20051008,A) H04J-11/00
(R,I,M,EP,20060101,20051008,C) H04J-13/02(R,I,M,JP,20060101,20051220,C,F) H04J-13/04
(R,I,M,JP,20060101,20051220,A,F) H04L-1/00(R,I,M,EP,20060101,20051008,A) H04L-1/00
(R,I,M,EP,20060101,20051008,C) H04Q-7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38
(R,I,M,JP,20060101,20051220,C,L)
Current ECLA class: H04J-11/00 H04L-1/00A1
Current ECLA ICO class: T04B-1:707M T04J-11:00B10 T04J-11:00B4
Current US Class (main): 375-146000
Current US Class (secondary): 370-342000 370-468000 375-130000 375-141000
Original US Class (main): 375206
Original US Class (secondary): 375200 375208 370342
Original Abstract: A method for transmitting a communication signal (20) having a data rate over a plurality of spread spectrum traffic channels includes determining a first number of traffic channels required to transmit the communication signal at the data rate, and determining a second number of traffic channels (502) available for transmitting the communication signal (20). In response to a comparison of the first number of traffic channels to the second number of traffic channels, a first traffic channel (54) for transmitting a first portion of the communication signal (50, 51) and a second traffic channel (56) for transmitting a second portion of the communication signal (52, 53) are selected from

the. second number of traffic channels (502). The selection of the first traffic channel (54) is non deterministic of the selection of the second traffic channel (56).

Claim: 1.A method for transmitting a communication signal having a data rate ove r a plurality of spread spectrum traffic channels, comprising: * (a) determining a first number of traffic channels required to transm it the communication signal at the data rate; * (b) determining a second number of traffic channels available for tra nsmitting the communication signal; * (c) comparing the first number of traffic channels to the second numb er of traffic channels; * (d) selecting, in response to the comparison of the first number of t raffic channels to the second number of traffic channels, a first tra ffic channel for transmitting a first portion of the communication si gnal, the first traffic channel being selected from the second number of traffic channels available for transmitting the communication sig nal; and * (e) selecting a second traffic channel for transmitting a second port ion of the communication signal, the second traffic channel being sel ected from the second number of traffic channels available for transm itting the communication signal, the selection of the first traffic c hannel being non deterministic of the selection of the second traffic channel.

WIPO
Publication Number: WO 1997026726 A1 (Update 199735 B)
Publication Date: 19970724
METHOD AND SYSTEM FOR COMMUNICATION OVER MULTIPLE CHANNELS IN A SPREAD SPECTRUM COMMUNICATION SYSTEM
Assignee: MOTOROLA INC., US (MOTI)
Inventor: BRUCKERT, EUGENE, J., US SEXTON, THOMAS, A., US
Language: EN (29 pages, 6 drawings)
Application: WO 1996US19016 A 19961126 (Local application)
Priority: US 1996589177 A 19960119
Designated States: (National Original) BR CA CN JP KR (Regional Original) AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Original IPC: H04J-13/04(A) H04B-1/707(B)
Current IPC: H04B-1/707(R,A,N,M,EP,20060101,20051008,A) H04B-1/707 (R,N,M,EP,20060101,20051008,C) H04J-11/00(R,I,M,EP,20060101,20051008,A) H04J-11/00 (R,I,M,EP,20060101,20051008,C) H04J-13/02(R,I,M,JP,20060101,20051220,C,F) H04J-13/04 (R,I,M,JP,20060101,20051220,A,F) H04L-1/00(R,I,M,EP,20060101,20051008,A) H04L-1/00 (R,I,M,EP,20060101,20051008,C) H04Q-7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38 (R,I,M,JP,20060101,20051220,C,L)
Current ECLA class: H04J-11/00 H04L-1/00A1 H04L-1/00A9B
Current ECLA ICO class: T04B-1:707M T04J-11:00B10 T04J-11:00B4
Original Abstract: A method for transmitting a communication signal (20) having a data rate over a plurality of spread spectrum traffic channels includes determining a first number of traffic channels required to transmit the communication signal at the data rate, and determining a second number of traffic channels (502) available for transmitting the communication signal (20). In response to a comparison of the first number of traffic to the second number of traffic channels, a first traffic channel (54) for transmitting a first portion of the communication signal (50, 51) and a second traffic channel (56) for transmitting a second portion of the communication signal (52, 53) are selected from the second number of traffic channels (502). The selection of the first traffic channel (54) is non deterministic of the selection of the second traffic channel (56).